



LAV-Command & Control (LAV-C²) Upgrade Program Industry Day



**22 Sep 04
MCLB, Albany**



LAV Program Manager's Office

- Col John Bryant, USMC is PM
 - Located at TACOM in Warren, MI
 - Have personnel at both Albany and Barstow
- Col Bryant has dual reporting chain
 - CG, TACOM
 - CG, MARCORSYSCOM



Conference Guidelines

- Foreign nationals will require escort by authorized Government employee
- All information exchanged during this conference shall be non-binding on the parties involved unless incorporated into the RFP
- If you discover any conflicts between this presentation and other website postings, please notify the PCO through Linda Passeri in writing as soon as possible.
[\(passeril@tacom.army.mil\)](mailto:passeril@tacom.army.mil)
- Side conversations between the Contractors and Government during the conference are not permissible



Conference Guidelines

(cont.)

- Anyone who is not on the roster, please ensure that you provide your contact information to Linda Passeri
- Copies of the briefing charts will be posted on the web site:
<http://contracting.tacom.army.mil/majorsys/C2/C2.htm>
- Questions are encouraged, but please do not ask during the briefing
- Questions must be submitted in writing on the cards provided
- All questions and answers will be posted on the web site as soon as possible after the conference



Vehicle Display Guidelines

- Opportunity to view LAV-C²A1
 - Will include display of stowed gear
- Each industry team will be given a time slot
 - Duration will depend on number of teams
 - Ability to take measurements and digital photographs
 - Sequencing of teams draw





Conference Agenda

- Conference welcome 0900-0910
- Program overview 0910-1030
- Partnering 1030-1100
- Vehicle display 1100-????



Planned Acquisition Strategy

- Phase 1 - Award up to two contracts
 - One prototype each to be subjected to run-off test
- Phase 2 (Option on Phase 1 contract)
 - Fabricate four production representative systems
 - One system for Developmental Test
 - Two systems for Operational Test
 - One system for Contractor use
- Phase 3 (Options on Phase 1 contract)
 - Fabricate 10 production systems + refurb Phase 2 vehs
 - Fabricate 17 production systems
 - Fabricate 19 production systems



Capabilities/Requirement

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- Open system architecture with growth capability
 - Use server as host for AFATDS and C²PC Gateway software and to interconnect workstations
- Five workstations in addition to two crewmen
- Government provided communications suite
- Government provided server & laptop computers
- Contractor selected non-developmental
 - Power conditioning and management
 - Mass memory unit
 - Printer
 - Integration hardware



Design Considerations

- Existing vehicle platforms to be upgraded
- CANNOT degrade existing LAV performance
- Must maintain current ballistic protection
- Minimize antenna cosite interference
- Top level architecture identified
- Integration of Government specified components
 - Open systems architecture
 - Growth capability
 - Hooks for JTRS



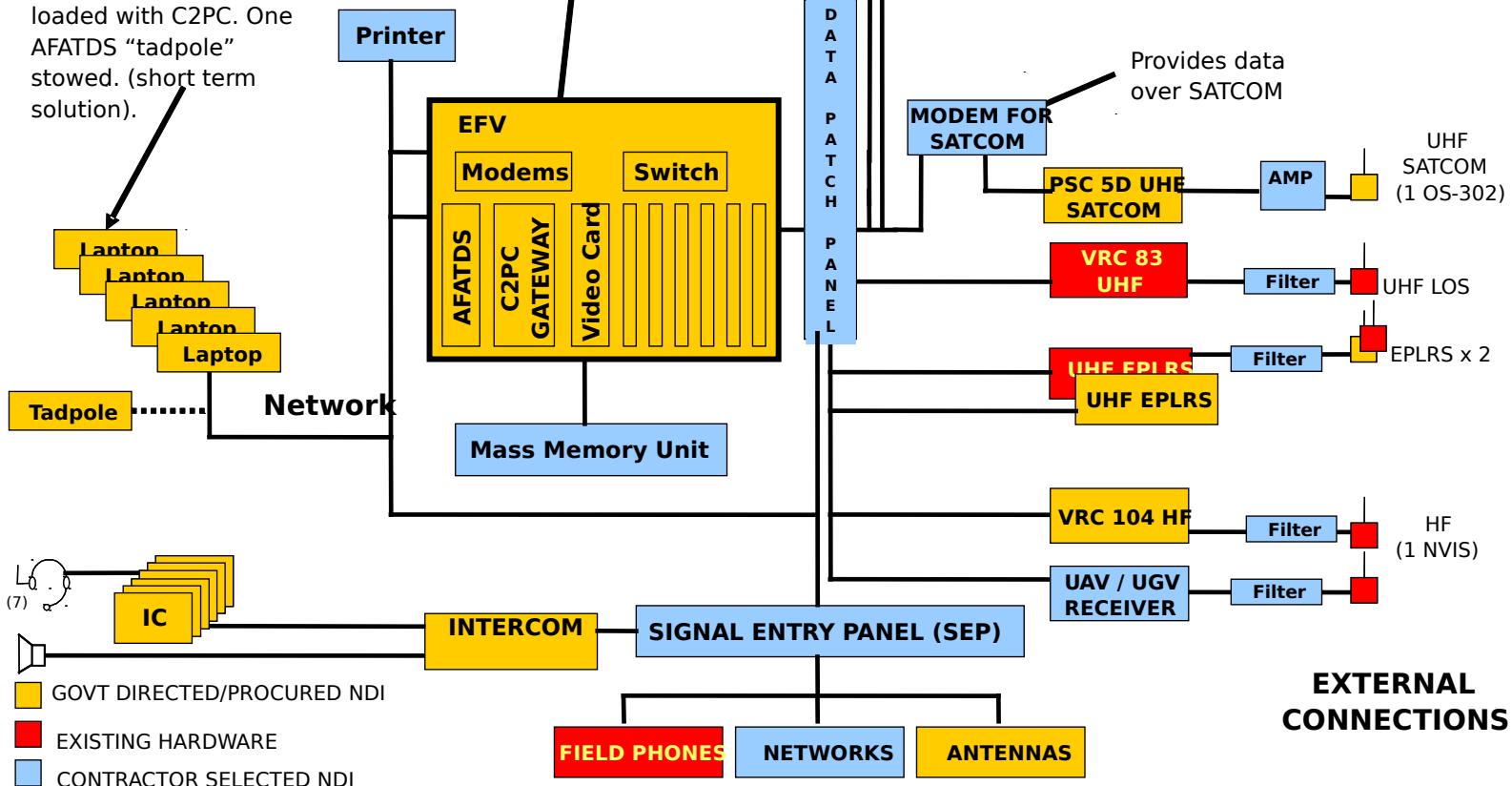
Environmental Characteristics

- Operate from -25° to +125° F
- Transport aboard LCAC (associated salt spray)
- Transport aboard C130 aircraft
- Maintain swim capability
- Protect against vehicle induced electromagnetic interference
- Resistant to High Altitude Electromagnetic Pulse
- Resistant to NBC contaminants



System Architecture

5 Miltope Laptops available on the USA common hardware suite. Each Miltope laptop is loaded with C2PC. One AFATDS "tadpole" stowed. (short term solution).





Government Furnished Components

- Expeditionary Fighting Vehicle multiprocessor unit (server)
- MILTOPE laptop computers
- Tadpole laptop computer
- Intercommunications system
- Radios
 - Two VRC-92A SINCGARS VHF radios
 - One VRC-83(V)2 UHF radio
 - One VRC-104 HF radio (PRC-150 R/T)
 - One PSC-5D(C) SATCOM radio
- Data receiver/transmitters
 - One Mounted-Data Automated Communications Terminal (MDACT)
 - Two Enhanced Position Location Reporting System (EPLRS)
 - One PLGR Global Positioning System



Planned Program Strategy

Request for Proposals

- Statement of Objectives
- System requirements document
- Contract data requirements list
- Source selection criteria (Section M)
- Proposal requirements (Section L)

Proposals

- Respond to all Section L requirements to include:
 - Integrated Master Plan/Integrated Master Schedule
 - Description of approach to address objectives
 - Statement of work
 - Past performance information
 - Cost information



Planned Program Strategy (cont)

- Phase 1 - Up to two contracts
 - Government will provide to each competitor:
 - One LAV-C2A1 vehicle w/Basic Issue Items
 - One EFV MPU w/AFATDS & C2PC Gateway software
 - Five Miltope and one Tadpole laptop computers
 - One set of radios/antennas (Requires COMSEC account)
 - One intercom set with standard cables
 - Contractor shall:
 - Conduct efforts IAW IMP and SOW
 - Maintain IMS
 - Deliver one prototype vehicle and support for test
 - Contractor will conduct test IAW government test plan



Planned Program Strategy (cont)

Phase 2 (Option to Phase 1 contract)

➤ Government will provide:

- Four LAV-C2A1 vehicles w/Basic Issue Items
 - Two from Phase 1 plus two additional
- Four EFV MPUs w/AFATDS & C²PC Gateway software
- 20 Miltope and five Tadpole laptop computers
- Four sets of radios, antennas and standard cables
- Four intercom sets with standard cables

➤ Contractor shall:

- Conduct efforts IAW IMP and SOW
- Maintain IMS
- Deliver four production representative vehicles and support

➤ Government will conduct DT and OT



Planned Program Strategy (cont)

- Phase 3 (Option to Phase 1 and 2 contract)
 - Government will, over 3 years, provide:
 - 46 LAV-C²A1 vehicles plus four Phase 2 vehicles
 - 50 EFV MPUs w/AFATDS & C²PC Gateway software
 - 50 vehicle sets of laptop computers
 - Two sets of radios/antennas for form, fit and function
 - 50 intercom sets with cables
 - Contractor shall:
 - Conduct efforts IAW IMP and SOW
 - Maintain IMS
 - Deliver 50 production vehicles and support for PVT
 - Refurbish four Phase 2 vehicles
 - Government will conduct Production Verification Test



Program Schedule

Phase 1

- Post draft information as it becomes available
- Final RFP release - 10 Nov 04
- Proposals due - 07 Jan 05
- Contract award(s) - 18 Mar 05
- Prototype delivery - 10 Oct 05
- Run-off test - 24 Oct through 25 Nov 05



Program Schedule (cont)

Phase 2

- Request final proposal revisions - 25 Nov 05
- Proposals due - 23 Dec 05
- Exercise option - 27 Jan 06
- DT vehicle delivery - Apr 06
- DT - Apr through Aug 06
- OT vehicle deliveries - Aug 06
- OT - Sep through Nov 06



Program Schedule (cont)

Phase 3

- Exercise 1st option (14 vehicles) - Jan 07
- Production Verification Test - Jan through Mar 08
- Initial Operational Capability - 2nd Qtr FY09
- Exercise 2nd option (17 vehicles) - Oct 07
- Exercise 3rd option (19 vehicles) - Oct 08
- Full Operational Capability - 2nd Qtr FY12



Available Contractor Funding

- Phase 1 - RDT&E
 - FY05 \$6,374K (does not include GFE/M)
 - \$3,187K for each of two contracts
- Phase 2 - RDT&E
 - FY06 \$4,604K
 - FY07 \$578K
- Phase 3 - PMC
 - FY07 \$8,477K
 - FY08 \$12,691K
 - FY09 \$13,543K
 - FY10 \$35K



Summary

- Seeking qualified sources to integrate Government identified non-developmental components into an open architecture suite
 - CANNOT degrade current LAV performance
 - Government identified components may change as program matures
- Ensure you submit any questions on cards provided
 - Spelling will not be graded
 - Legibility is preferred
- This briefing, today's attendance roster and responses to questions will be posted on the LAV-C² website at
<http://contracting.tacom.army.mil/majorsys/C2/C2.htm>
- Linda Passeri: passeril@tacom.army.mil; (586) 574-3914

